

SI/cs 021174WO

02 July 2004

5

Abstract

The invention relates to a beta titanium alloy that has high strength and good plastic characteristics prior to curing for the purposes of effective formability and also has high
10 fatigue strength. The beta titanium alloy accordingly contains (in mass %): V: 10 to 17%, Fe: 2 to 5%, Al: 2 to 5%, Mo: 0.1 to 3%, and optionally one or more alloy elements from the group of Sn, Si, Cr, Nb, Zr according to the following proportions: Sn: 0.1 to 3%, Si: 0.1 ≤ 2%, Cr: ≤ 2%, Nb: ≤ 2%,
15 Zr: ≤ 2%, wherein additional contents of C and of elements from the group of the lanthanides may be present, and as the remainder Ti and inevitable impurities. The invention also relates to a method by means of which high-strength components may be produced cost-effectively from an alloy of
20 this type.

The document is to be published without a drawing.

25

30